Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the

application. Applicants have submitted a new complete claim set showing any marked up claims

with insertions indicated by underlining and deletions indicated by strikeouts and/or double

bracketing.

Listing of Claims:

1. (currently amended) A computer-readable medium having computer-executable

instructions for performing a method of rendering a web page image, the method comprising,

receiving a document having an element thereon, the document including information

associating the element with an external component that is encapsulated and external to the

document such that multiple instances of the external component may be used with a plurality of

different documents including the document having the element thereon and wherein the

information associating the element with the external component is maintained in a cascading

style sheet and wherein code is not included in the document;

rendering a page image corresponding to at least part of the document, the page image

including a representation of the element;

instantiating the external component;

associating an interface of the instance of the external component with the element; and

accessing the instance of the external component using the associated interface for

determining a behavior of the representation of the element rendered on the page image.

2. (previously presented) The computer-readable medium of claim 1 further comprising,

receiving an event, and wherein accessing the external component in response to the event.

3. (previously presented) The computer-readable medium of claim 1 further comprising,

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modifying an appearance of the representation of the element in response to accessing the

external component.

4 (original) The computer-readable medium of claim 1 further comprising, changing a

location of the representation of the element in response to accessing the external component.

5. (original) The computer-readable medium of claim 1 further comprising, drawing

information on the page image in response to accessing the external component.

6. (original) The computer-readable medium of claim 1 wherein the external component

comprises an object, and wherein accessing the external component includes instantiating an

instance of the object.

7. (previously presented) The computer-readable medium of claim 1 further comprising,

receiving a new document having another element thereon, the new document including

information associating the other element with the external component, rendering a new page

image corresponding to at least part of the document, the new page image including a

representation of the other element, and accessing the external component for determining a

behavior of the representation of the other element rendered on the new page image.

8. (original) The computer-readable medium of claim 7 wherein the external component

comprises a COM object, and wherein accessing the external component for determining a

behavior of the representation of the other element includes accessing another instance of the

obiect.

9. (canceled)

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10. (original) The computer-readable medium of claim 1 wherein the information associating

the element with the external component is maintained in a custom tag.

11. (original) The computer-readable medium of claim 1 wherein the information associating

the element with the external component is maintained in a class.

12. (original) The computer-readable medium of claim 1 wherein the information associating

the element with the external component is maintained in the document inline with the element.

13. (original) The computer-readable medium of claim 1 wherein the document includes

another element having a representation thereof rendered in the page image, the document

includes other information associating the other element with the external component, and

further comprising, accessing the external component for determining a behavior of the

representation of the other element.

14. (previously presented) The computer-readable medium of claim 1 wherein the document

includes information associating the element with a second external component, and further

comprising, accessing the second external component for determining a behavior of the

representation of the element.

15. (original) The computer-readable medium of claim 14 further comprising, resolving a

conflict between the behavior determined by the external component and the behavior

determined by the second external component.

16. (original) The computer-readable medium of claim 1 further comprising, downloading

the external component.

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17. (previously presented) A computer-implemented method of providing dynamic effects to

an HTML document, comprising,

encapsulating code in an external component that may affect a behavior of one or more

elements contained in the document while being external to the document, including elements of

different documents:

inserting an element into the document;

attaching a reference in the document to associate the element with an instance of the

external component, such that another instance of the element may be referenced by a different

document wherein the reference associating the element with the external component is

maintained in a cascading style sheet and wherein code is not included in the document; and

providing the document to a renderer, wherein the renderer is capable of instantiating the

external component, associating an interface of the instance of the external component with the

element, and displaying the rendered document.

18. (original) The method of claim 17 further comprising, providing the external component

to the renderer.

19. (original) The method of claim 17 further comprising, rendering a page image from the

document, accessing the external component, and modifying a representation of the element

based on the code in the external component.

20. (original) The method of claim 19 wherein the external component is a COM object, and

wherein accessing the external component includes calling an interface of the COM object.

21. (original) The method of claim 19 wherein modifying a representation of the element

includes changing the appearance thereof.

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22. (original) The method of claim 19 wherein modifying a representation of the element

includes changing the location thereof.

23. (original) The method of claim 17 further comprising, rendering a page image from the

document, accessing the external component, and drawing information in the image based on the

code in the external component.

24. (original) The method of claim 23 wherein rendering a page image from the document is

interleaved with drawing information in the image.

25. (original) The method of claim 17 further comprising receiving an event indicative of

user interaction with the image.

26. (canceled)

27. (previously presented) The method of claim 17 wherein the reference associating the

element with the external component is maintained in a custom tag.

28. (previously presented) The method of claim 17 wherein the information associating the

element with the external component is maintained in a class identifier.

29. (previously presented) The method of claim 17 wherein the reference associating the

element with the external component is maintained inline with the element in the document.

30. (currently amended) In a computer system, a A computer system for rendering page

images on a display, comprising:

an external component encapsulating code for modifying a behavior of one or more

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elements, the external component operable to be instantiated multiple times and operable to

modify elements in a plurality of different documents while being external to the documents and

wherein the information associating the element with the external component is maintained in a

cascading style sheet and wherein code is not included in the documents; and

at least one processing unit comprising a renderer connected to the display for rendering

page images, the renderer receiving a document having an element specified therein and

information associating the element with the external component, the renderer rendering a page

image corresponding to the document, the renderer instantiating the external component, the

renderer associating an interface of the instantiated external component with the element, the

renderer displaying the document, and accessing the external component for modifying the page

image.

31. (original) The system of claim 30 further comprising a mechanism for receiving an event.

32. (original) The system of claim 30 wherein the renderer displays a representation of the

element and modifies a behavior of the element by accessing the external component.

33. (original) The system of claim 32 wherein the behavior is modified by changing a

displayed property of the representation of the element.

34. (original) The system of claim 32 wherein the behavior is modified by changing a

displayed location of the representation of the element.

35. (original) The system of claim 30 wherein the renderer modifies the page image by

accessing the external component, and the external component draws information on the page

image.

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36. (previously presented) The system of claim 35 wherein the renderer calls the external

component a plurality of times to draw information on the page image, and the renderer draws

information on the page image between at least some of calls to the external component.

37. (original) The system of claim 30 wherein the external component comprises an object,

and wherein the renderer instantiates an instance of the object.

38. (original) The system of claim 30 wherein the external component comprises an object,

and wherein the renderer communicates with the object through an interface.

39. (original) The system of claim 30 wherein the renderer receives a new document having

another element thereon that references the external component.

40. (canceled)

41. (previously presented) The system of claim 30 wherein the cascading style sheet is

embedded in the document.

42. (previously presented) The system of claim 30 wherein the cascading style sheet is linked

to the document.

43. (original) The system of claim 30 including a custom tag for associating the element with

the external component.

44. (original) The system of claim 30 wherein the information associating the element with

the external component is maintained in the document inline with the element.

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45. (original) The system of claim 30 wherein the document includes another element and

information associating the other element with the external component, and wherein the renderer

accesses the external component for determining a behavior of the representation of the other

element.

46. (original) The system of claim 30 wherein the document includes information associating

the element with a second external component.

47. (original) The system of claim 30 wherein the renderer accesses the external component

to control the format of data input by a user.

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